

47. (Amended) A method of modulating embryo development in a plant, the method comprising,
introducing into the plant an expression cassette containing a plant promoter operably linked to a heterologous LEC1 polynucleotide, the heterologous LEC1

polynucleotide encoding a LEC1 polypeptide comprising a subsequence at least 80% identical to the B domain of SEQ ID NO:2; and
detecting a plant with modulated embryo development.

54. (Amended) The method of claim 47, wherein modulating transcription results in the induction of embryonic characteristics in a plant.

55. (Amended) The method of claim 47, wherein modulating transcription results in the induction of seed development.

70. (New) The expression cassette of claim 1, wherein the B domain comprises a polypeptide sequence between amino acid residue 28 and residue 117 of SEQ ID NO:2.

71. (New) The isolated nucleic acid of claim 21, wherein the B domain comprises a polypeptide sequence between amino acid residue 28 and residue 117 of SEQ ID NO:2.

72. (New) The host cell of claim 35, wherein the B domain comprises a polypeptide sequence between amino acid residue 28 and residue 117 of SEQ ID NO:2.

73. (New) The method of claim 47, wherein the B domain comprises a polypeptide sequence between amino acid residue 28 and residue 117 of SEQ ID NO:2.

REMARKS

1. Status of the claims

Claims 1, 21, 35, 42, 47, 54, and 55 are amended and claims 70-73 are amended. Claims 4-8, 10-20, 23-27, 30-34, 37-38, 40-41, 44-45, 50-53, 56-57, 59-62 and 64-68 were withdrawn from consideration by the Examiner. Thus, claims 1-3, 9, 21-22,